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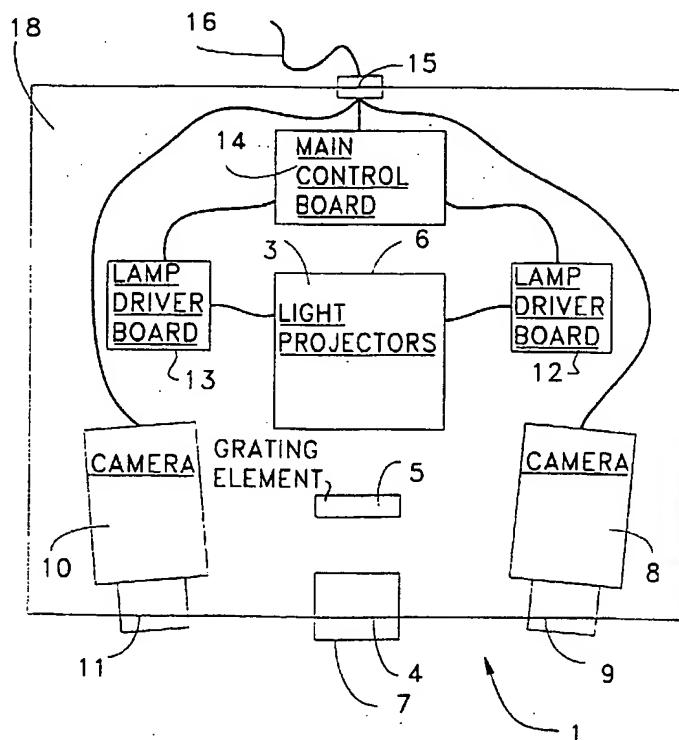
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(54) Titre : SYSTEME DE CAPTURE DE MOUVEMENT, DE NUMERISATION TRIDIMENSIONNELLE COULEUR ET DE STEREOVISION

(54) Title: COMBINED STEREOVISION, COLOR 3D DIGITIZING AND MOTION CAPTURE SYSTEM



(57) Abrégé/Abstract:

A digitizer combining functions of stereovision, color 3D digitizing and motion capture of a target object. The digitizer has a base supporting two cameras and two projection arrangements with projectors, one of which is provided with a grating element for projection of an encoded pattern on a surface of the target object and used for an active 3D range sensing, the other being used for an acquisition of texture information of the target object. The cameras and the light projectors are angled with respect to each other and arranged so that they have optical axes converging through a single point. A computer operates the projectors and processes the video signals generated by the cameras according to the selected function.

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